

ARM IN REST POSITION

FIG. 1A

ARM DEFORMED
NEGATIVELY USING
SIX INDIVIDUAL SCALE
CONTROLS. NOTE
THAT USING THE
SINGLE CONTROLS
CAUSES LOSS OF
VOLUME IN THE ARM
AT THE ELBOW.

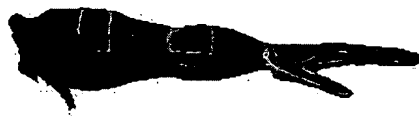


FIG. 1B

ARM DEFORMED
POSITIVELY USING SIX
INDIVIDUAL SCALE
CONTROLS. NOTE
THAT USING THE
SINGLE CONTROLS
CAUSE LOSS OF
VOLUME IN THE ARM,
UNDESIRABLE BULGING
AT THE ELBOW.



FIG. 1C

PRIOR ART

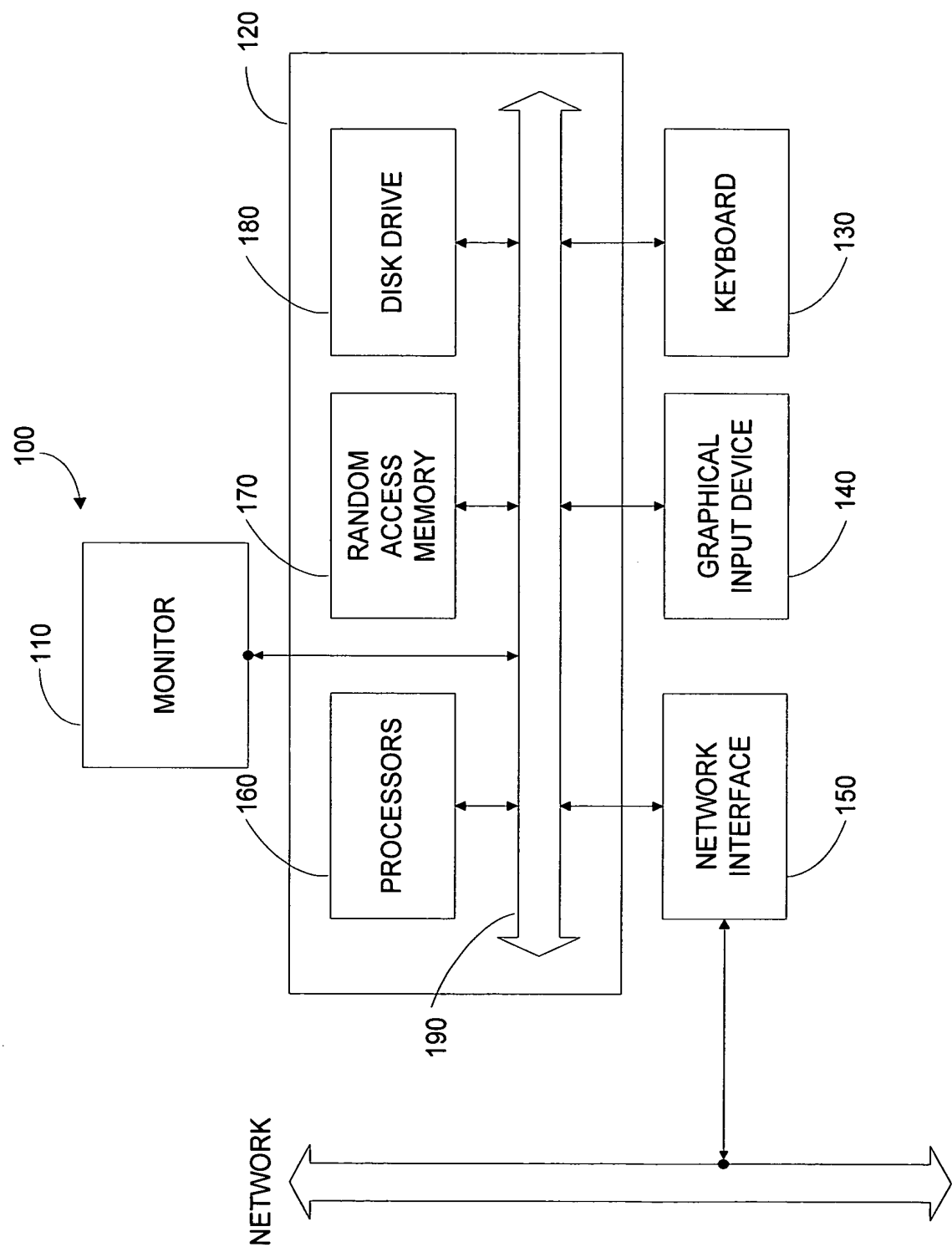


FIG. 2

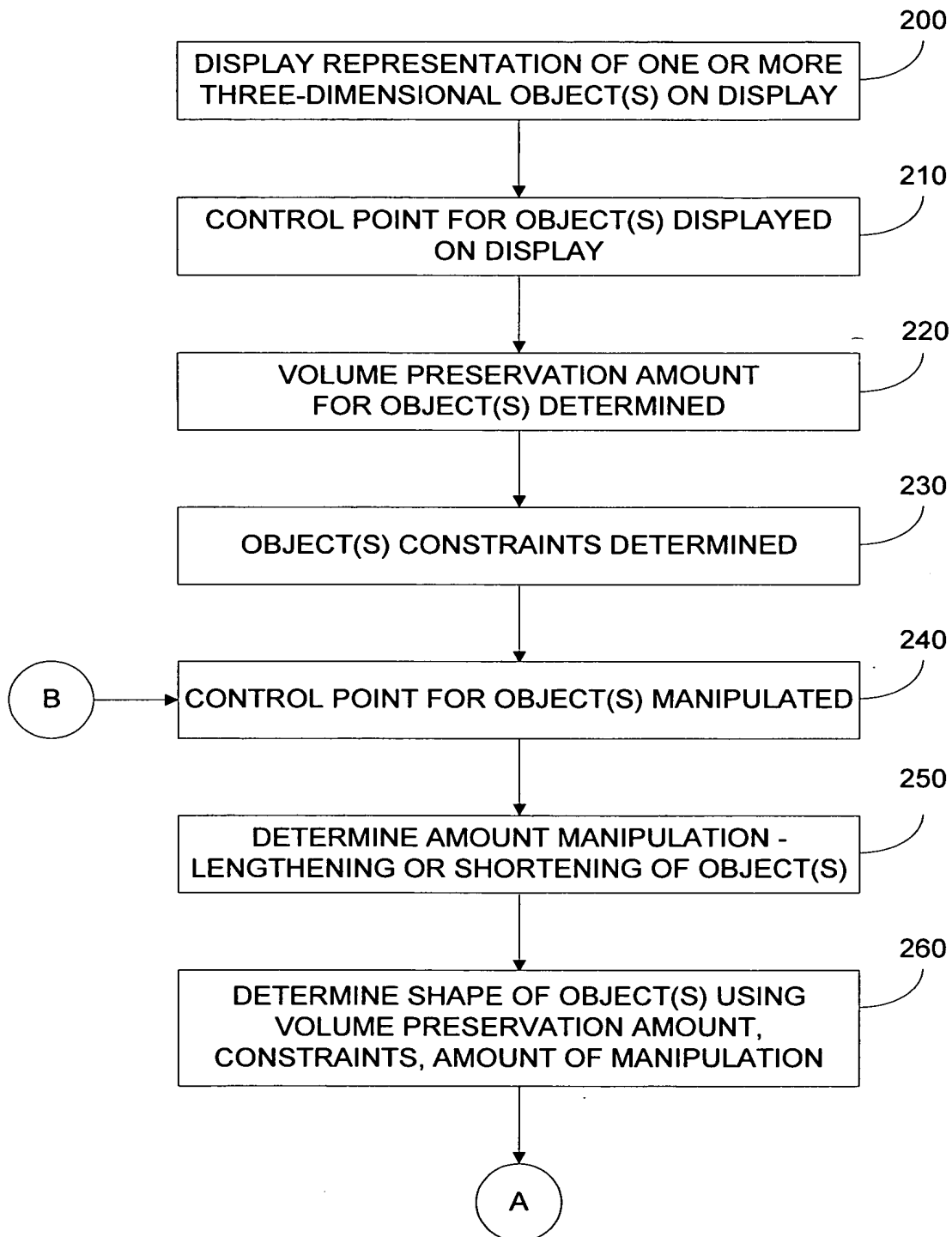


FIG. 3A

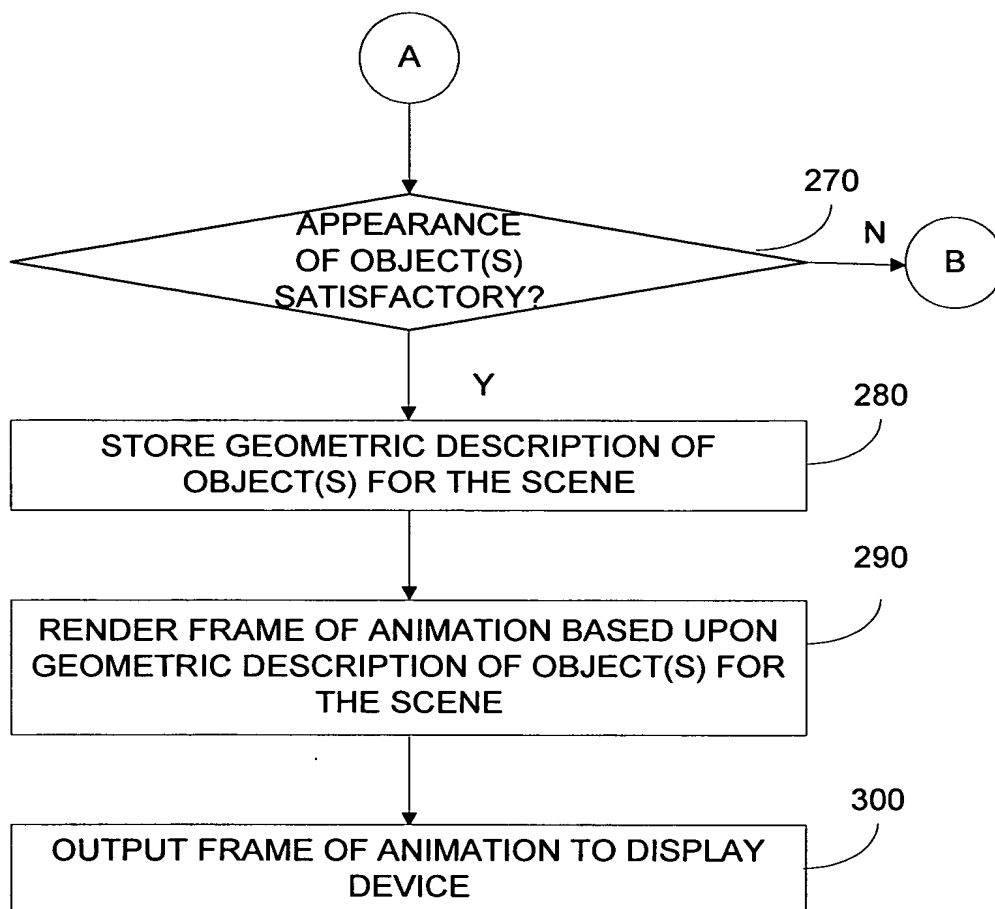


FIG. 3B

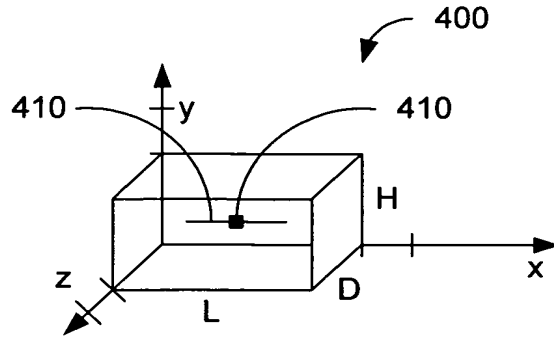


FIG. 4A

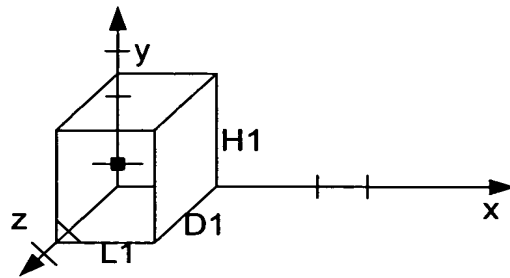


FIG. 4B

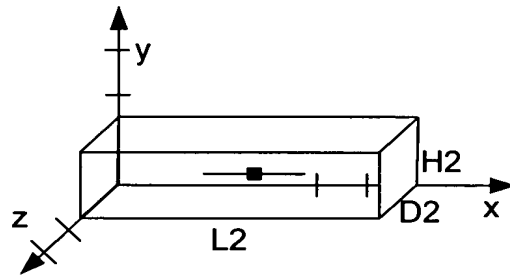


FIG. 4C

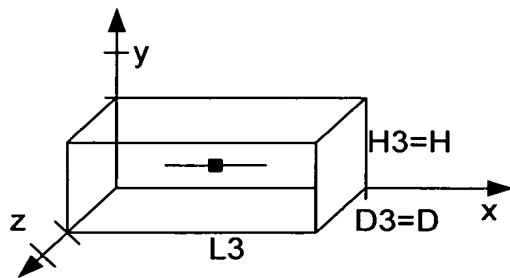


FIG. 4D

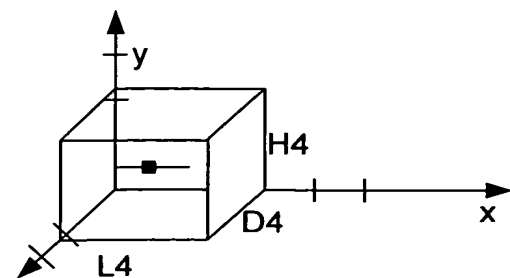


FIG. 4E

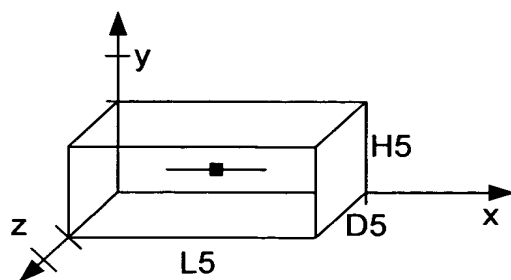


FIG. 4F

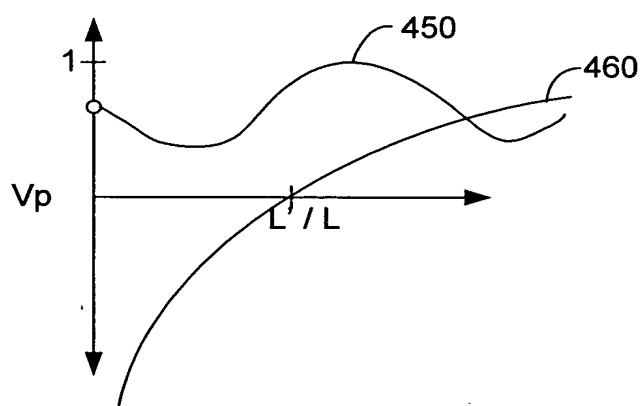


FIG. 4G

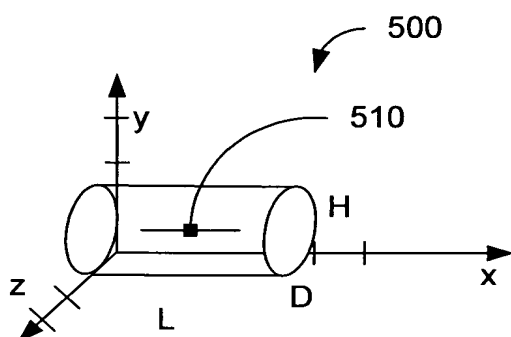


FIG. 5A

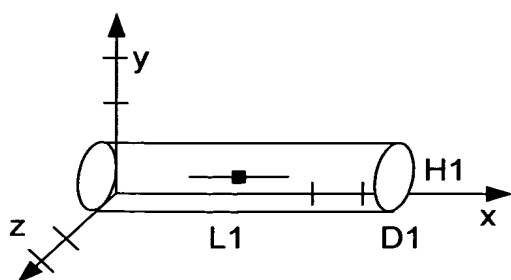


FIG. 5B

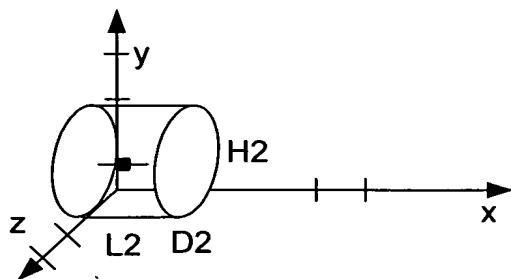


FIG. 5C

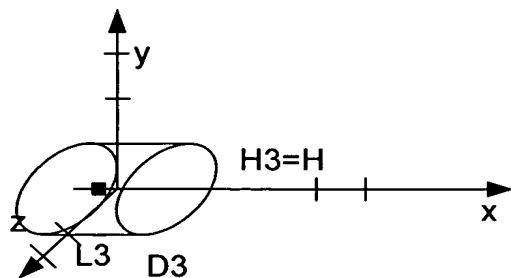


FIG. 5D

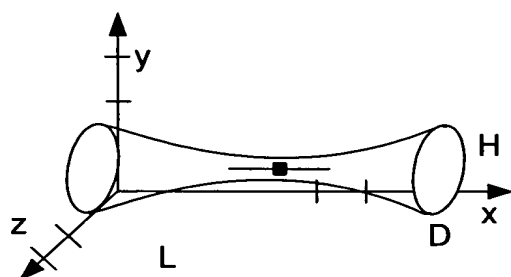


FIG. 5E

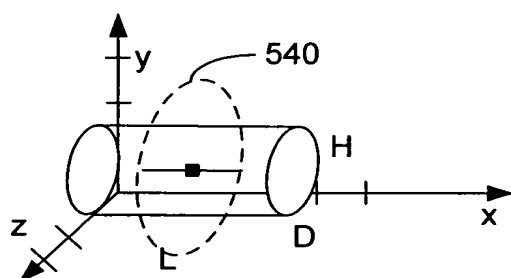


FIG. 5F

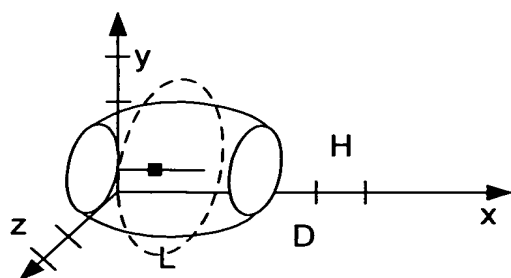


FIG. 5G1

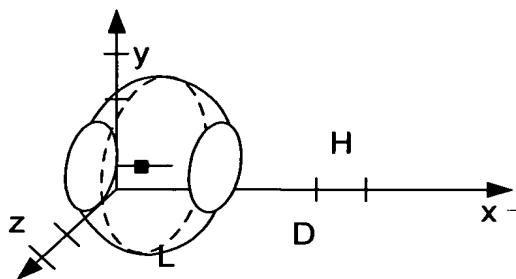


FIG. 5G2

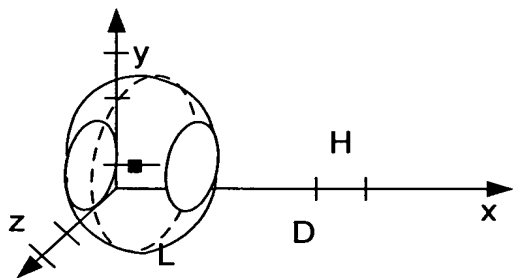


FIG. 5G3

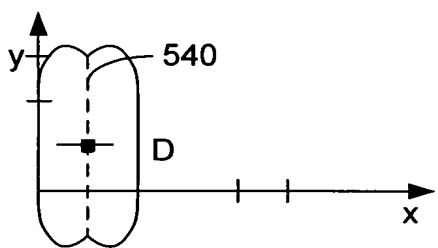


FIG. 5G4

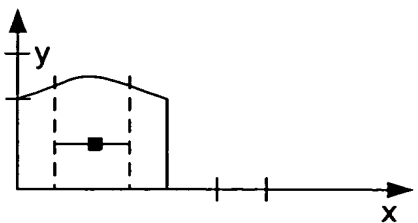
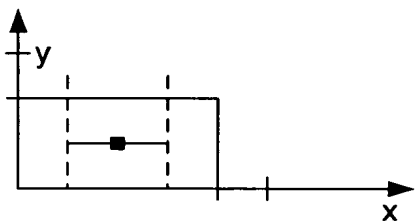
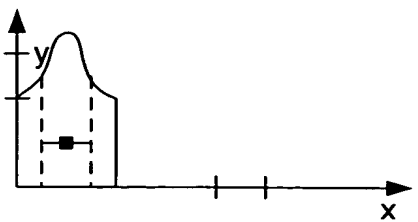


FIG. 5H



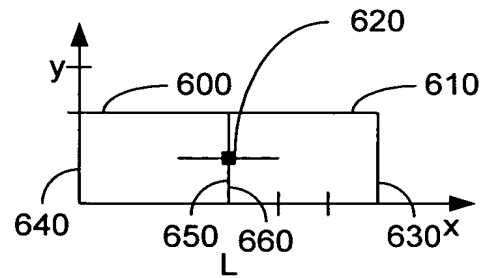


FIG. 6A

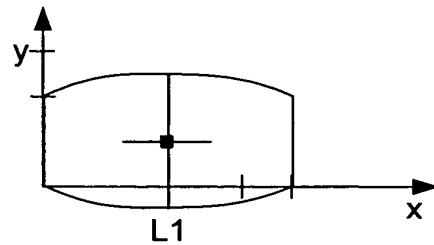


FIG. 6B

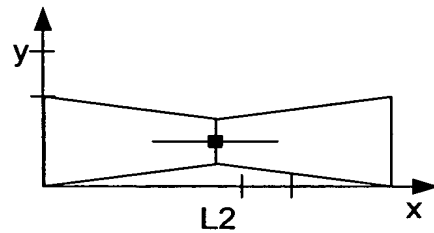


FIG. 6C

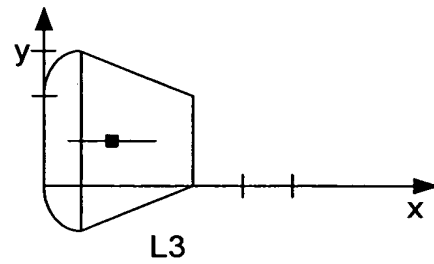


FIG. 6D

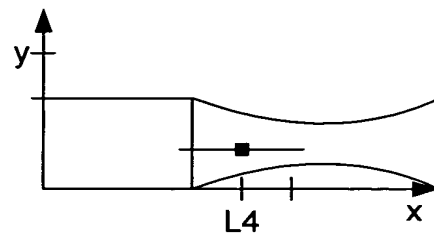


FIG. 6E



ARM AT REST WITH THE SQUASH AND STRETCH WIDGET DISPLAYED. TO MOVE THE ARM, THE ANIMATOR GRABS THE CUBE MANIPULATOR AND DRAGS IT EITHER IN THE POSITIVE OR NEGATIVE DIRECTION TO DEFORM THE ARM

FIG. 7A

ARM DEFORMED WITH SQUASH AND STRETCH WIDGET IN THE NEGATIVE DIRECTION. NOTICE THAT THERE IS VOLUME PRESERVATION ACROSS THE UPPER ARM AND FOREARM.

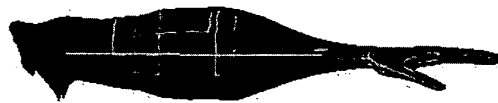


FIG. 7B

ARM DEFORMED WITH SQUASH AND STRETCH WIDGET IN THE POSITIVE DIRECTION. NOTICE THE SMOOTH TRANSITION BETWEEN THE UPPER ARM AND LOWER ARM.



FIG. 7C